USSN: 09/875,076

## **LISTING OF THE CLAIMS:**

The claims are not amended. A complete listing of the claims, including their current status, is set forth below.

Claims 1-76 (Cancelled).

- 77. (Previously Presented) An isolated polynucleotide encoding a G protein-coupled receptor, wherein said polynucleotide is selected from the group consisting of:
- (a) a polynucleotide comprising a nucleotide sequence encoding the polypeptide of SEQ D N0:20; and
  - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO: 19.
- 78. (Previously Presented) An isolated polynucleotide encoding a G protein-coupled receptor, wherein said polynucleotide is selected from the group consisting of:
- (a) a polynucleotide consisting of a nucleotide sequence encoding the polypeptide of SEQ ID N0:20; and
  - (b) a polynucleotide consisting of the nucleotide sequence of SEQ ID NO: 19.
- 79. (Previously Presented) A vector comprising the polynucleotide of claim 77 or claim 78.
- 80. (Previously Presented) The vector of claim 79, wherein said vector is an expression vector, and said polynucleotide is operably linked to a promoter.
  - 81. (Previously Presented) A recombinant host cell comprising the vector of claim 79.
- 82. (Previously Presented) A process for making a recombinant host cell comprising the steps of:
  - (a) transfecting the expression vector of claim 80 into a suitable host ceil; and

USSN: 09/875,076

(b) culturing the host cell under conditions which allow expression of a G protein-coupled receptor from the expression vector.

- 83. (Previously Presented) A membrane of the recombinant host cell of claim 81 comprising said G protein-coupled receptor.
- 84. (Previously Presented) An isolated polynucleotide encoding a non-endogenous, constitutively activated G protein-coupled receptor, wherein said polynucleotide is selected from the group consisting of:
- (a) a polynucleotide comprising a nucleotide sequence encoding the polypeptide of SEQ ID N0:20 wherein the codon corresponding to glycine at amino acid position 285 has been substituted with a codon corresponding to an amino acid other than glycine; and
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ED NO: 19 wherein the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to an amino acid other than glycine.
- 85. (Previously Presented) An isolated polynucleotide encoding a non-endogenous, constitutively activated G protein-coupled receptor, wherein said polynucleotide is selected from the group consisting of:
- (a) a polynucleotide consisting of a nucleotide sequence encoding the polypeptide of SEQ ID N0:20 wherein the codon corresponding to glycine at amino acid position 285 has been substituted with a codon corresponding to an amino acid other than glycine; and
- (b) a polynucleotide consisting of the nucleotide sequence of SEQ ID NO: 19 wherein the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to an amino acid other than glycine.
- 86. (Previously Presented) The polynucleotide of claim 84 or claim 85 wherein the codon corresponding to glycine at amino acid position 285 or the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to lysine.

USSN: 09/875,076

87. (Previously Presented) A vector comprising the polynucleotide of claim 84.

88. (Previously Presented) The vector of claim 87, wherein said vector is an expression vector, and said polynucleotide is operably linked to a promoter.

- 89. (Previously Presented) A recombinant host cell comprising the vector of claim 87.
- 90. (Previously Presented) A process for making a recombinant host cell comprising the steps of:
  - (a) transfecting the expression vector of claim 88 into a suitable host cell; and
- (b) culturing the host cell under conditions which allow expression of a G proteincoupled receptor from the expression vector.
- 91. (Previously Presented) A membrane of the recombinant host cell of claim 89 comprising said expressed G protein-coupled receptor.
- 92. (Previously Presented) An isolated polynucleotide encoding a G protein fusion construct of a G protein-coupled receptor, wherein said polynucleotide comprises the nucleotide sequence of SEQ ID NO: 19.
- 93. (Previously Presented) An isolated polynucleotide encoding a G protein fusion construct of a G protein-coupled receptor, wherein said polynucleotide comprises a nucleotide sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding the polypeptide of SEQ ID N0:20 wherein the codon corresponding to glycine at amino acid position 285 has been substituted with a codon corresponding to an amino acid other than glycine; and
- (b) the nucleotide sequence of SEQ ID NO: 19 wherein the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to an amino acid other than glycine.

USSN: 09/875,076

94. (Previously Presented) The isolated polynucleotide of claim 93 wherein the codon corresponding to glycine at amino acid position 285 or the codon at nucleotide positions 853-855 corresponding to glycine has been substituted with a codon corresponding to lysine.

- 95. (Previously Presented) A vector comprising the polynucleotide of any one of claims 92, 93 or 94.
- 96. (Previously Presented) The vector of claim 95, wherein said vector is an expression vector, and said polynucleotide is operably linked to a promoter.
  - 97. (Previously Presented) A recombinant host cell comprising the vector of claim 95.
- 98. (Previously Presented) A process for making a recombinant host cell comprising the steps of:
  - (a) transfecting the expression vector of claim 96 into a suitable host cell; and
- (b) culturing the host cell under conditions which allow expression of a G protein fusion construct of a G protein-coupled receptor from the expression vector.
- 99. (Previously Presented) A membrane of the recombinant host cell of claim 97 comprising said G protein fusion construct.
  - 100. (Previously Presented) A vector comprising the polynucleotide of claim 85.
  - 101. (Previously Presented) A vector comprising the polynucleotide of claim 86.
  - 102-106. (Cancelled)